



Enabling the Fleet Integrated IT System Vision: Ull is the Key



**Maintenance Figure of Merit
(MFOM) PM
USFF N434
July 29 2009**



Fleet's Vision

- ***Issue:***

- Disjointed ILS life cycle process
- Stove piped maintenance data systems

- ***Vision:***

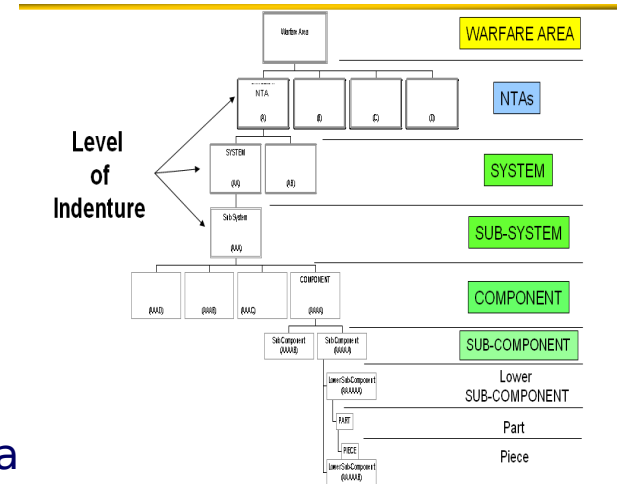
- Process and environment to facilitate integrated use of maintenance data
- Satisfies BOTH acquisition and maintenance communities in the same system
- Common system with a complete life-cycle view
 - Fed to Navy Readiness Reporting Enterprise (NRRE) data warehouse
 - Fed to Navy Maintenance community
- Integration into the current maintenance process with minimal impact to the maintainer on the deck-plate. Data sharing between:
 - Classified and unclassified environments
 - Government and industry
 - Ashore and afloat (in garrison or deployed)



Common Data Principles

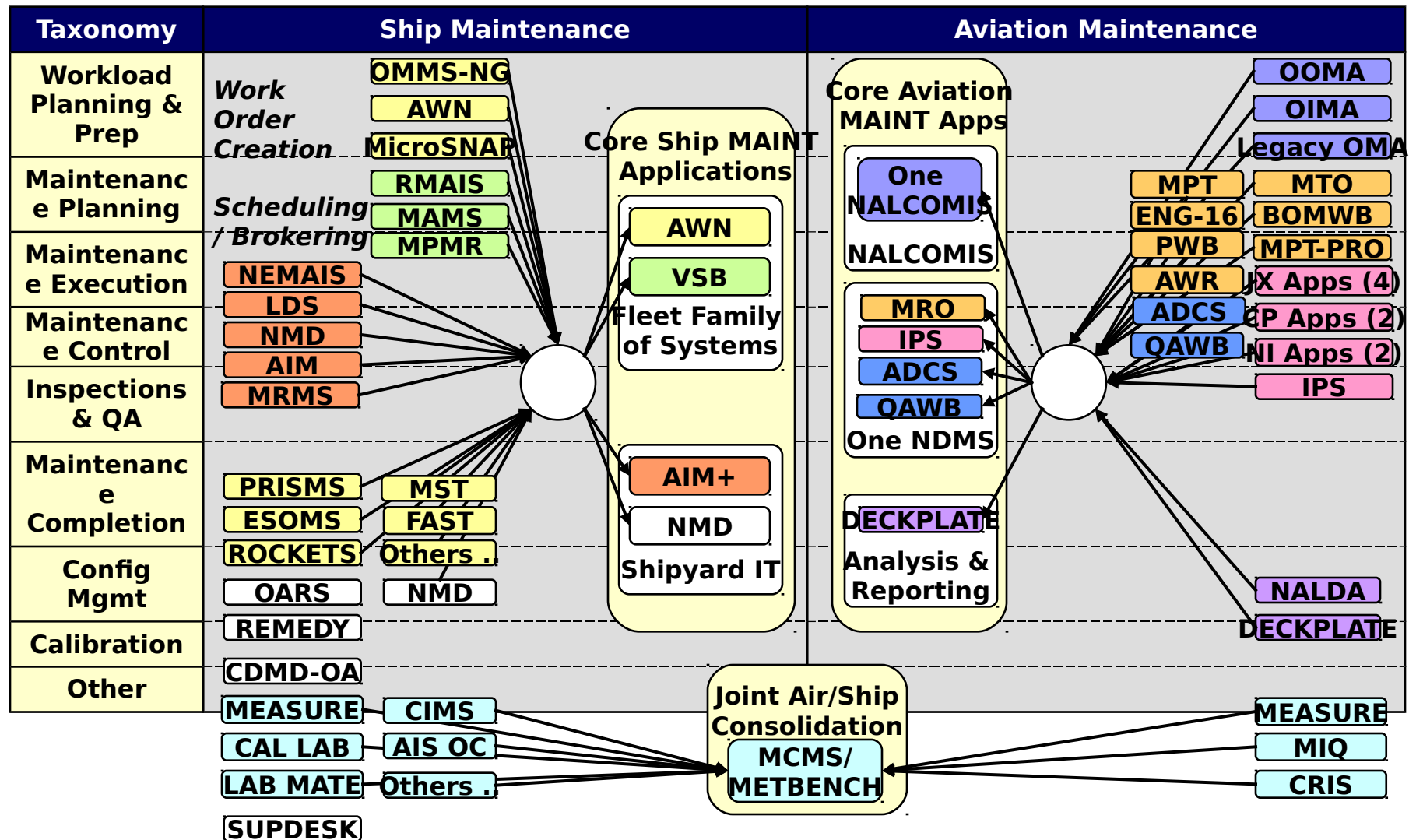
- **Bounded by 4 Guiding Principles**

- Warfighter/customer focused
- Helps use track cost to lower levels
- Designated single technical authority
 - Equipment
 - System
 - Platform
- Facilitate enterprise integration
 - Manage existing legacy and new data
 - Optimize sharing, reuse, and repurposing of data
 - Compliance with data security requirements
 - Improved data accuracy that is shared and maintained
 - Use open standards for interoperability and data exchange
 - Permit timely changes in product data for ships, aircraft, weapons, facilities and information systems
 - Provide for data sharing between classified and unclassified environments





Maintenance IT Vision





Simplifying the IT Portfolio

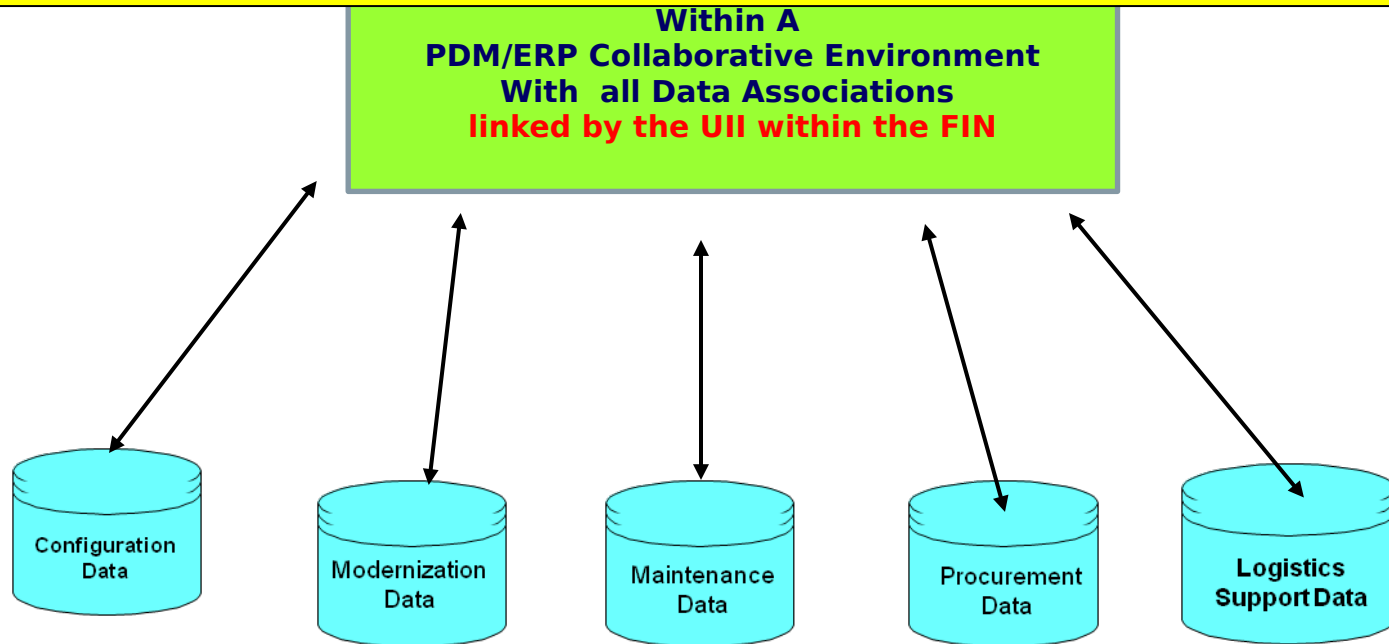
- ***Too many stove-piped applications***
 - 288 applications that deal with Product Data Management
 - 620 maintenance applications
- ***We must collapse into common integrated solutions***
 - Configuration Management
 - Procurement/Supply (parts, materials)
 - Logistics Support (drawings, tech manuals, maintenance)
 - Equipment material history
 - maintenance
 - modernization



Database Collaboration

UII Provides the Key to Linking All Logistic Elements Enabling

- Serialized Item Management
- Item Material History
- Ability to use Warranty Data Effectively
- Track Object Deficiencies when an Item Moves to Different Commands



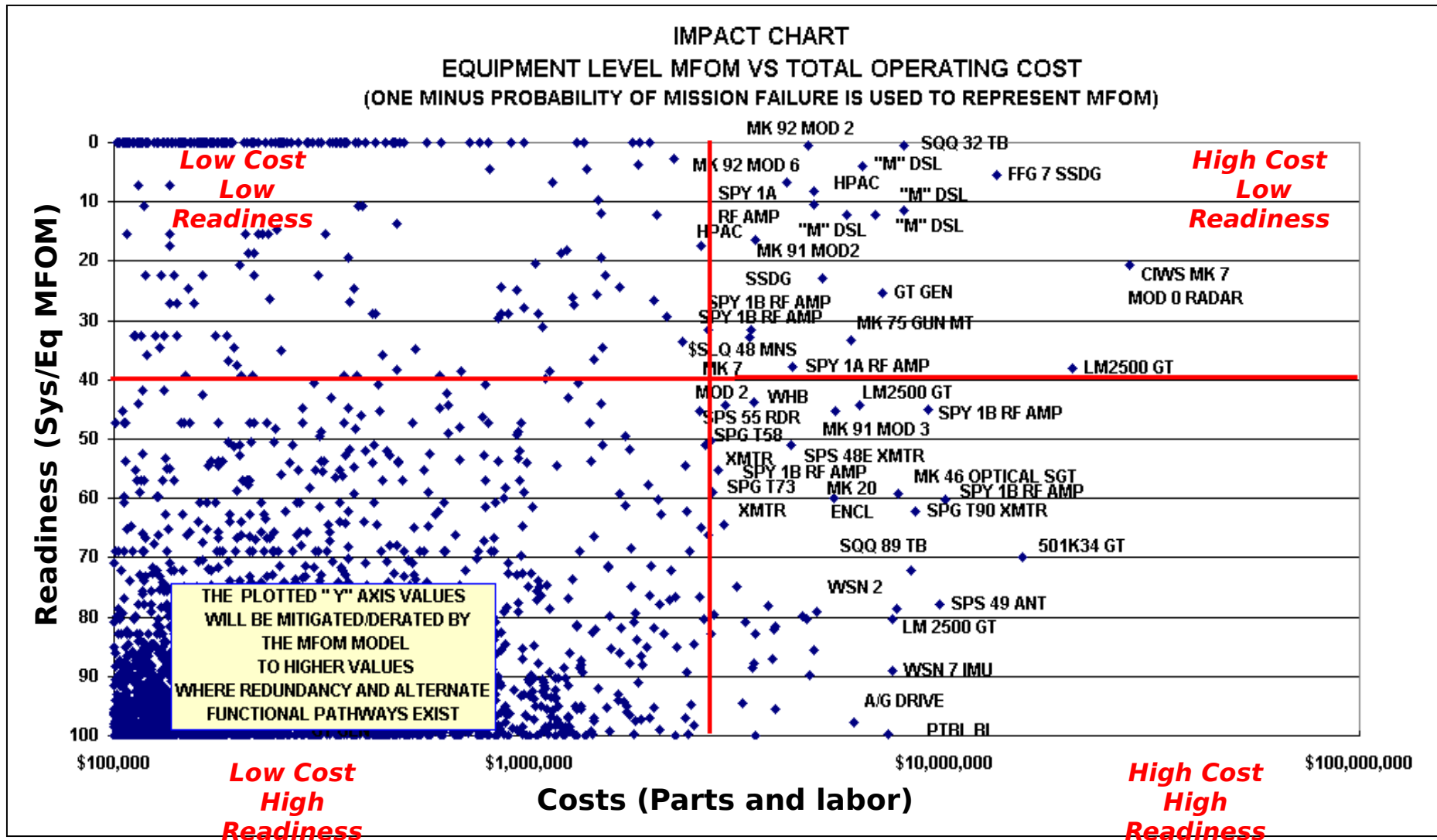


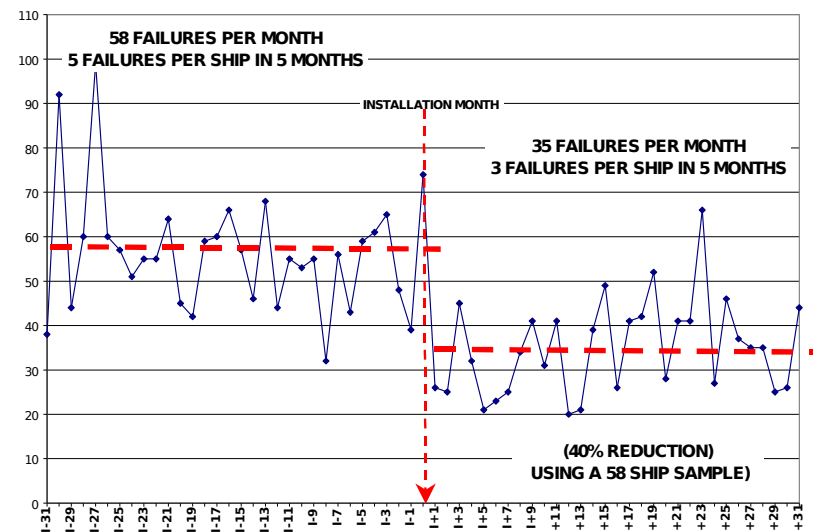
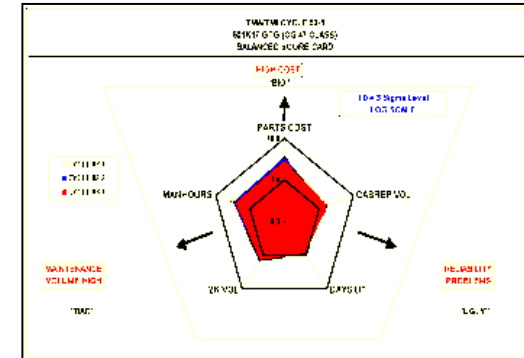
Benefits of IUID to End Users

- **Better documentation of material deficiency**
 - More accurate reporting of maintenance problems and their impact on readiness
- **Reduces (using the 2D bar code) the time to document maintenance deficiencies**
- **Progressively improves configuration data**
- **Allows item management as equipment is moved to new units**
- **Allows material history to be maintained for the life of the item**
- **Allows specific items that are “lemons” to be purged from the system thereby reducing maintenance costs in the long run**



IUID Facilitates Data Analysis







Static Index Matrix

Scenario: **Deployment**

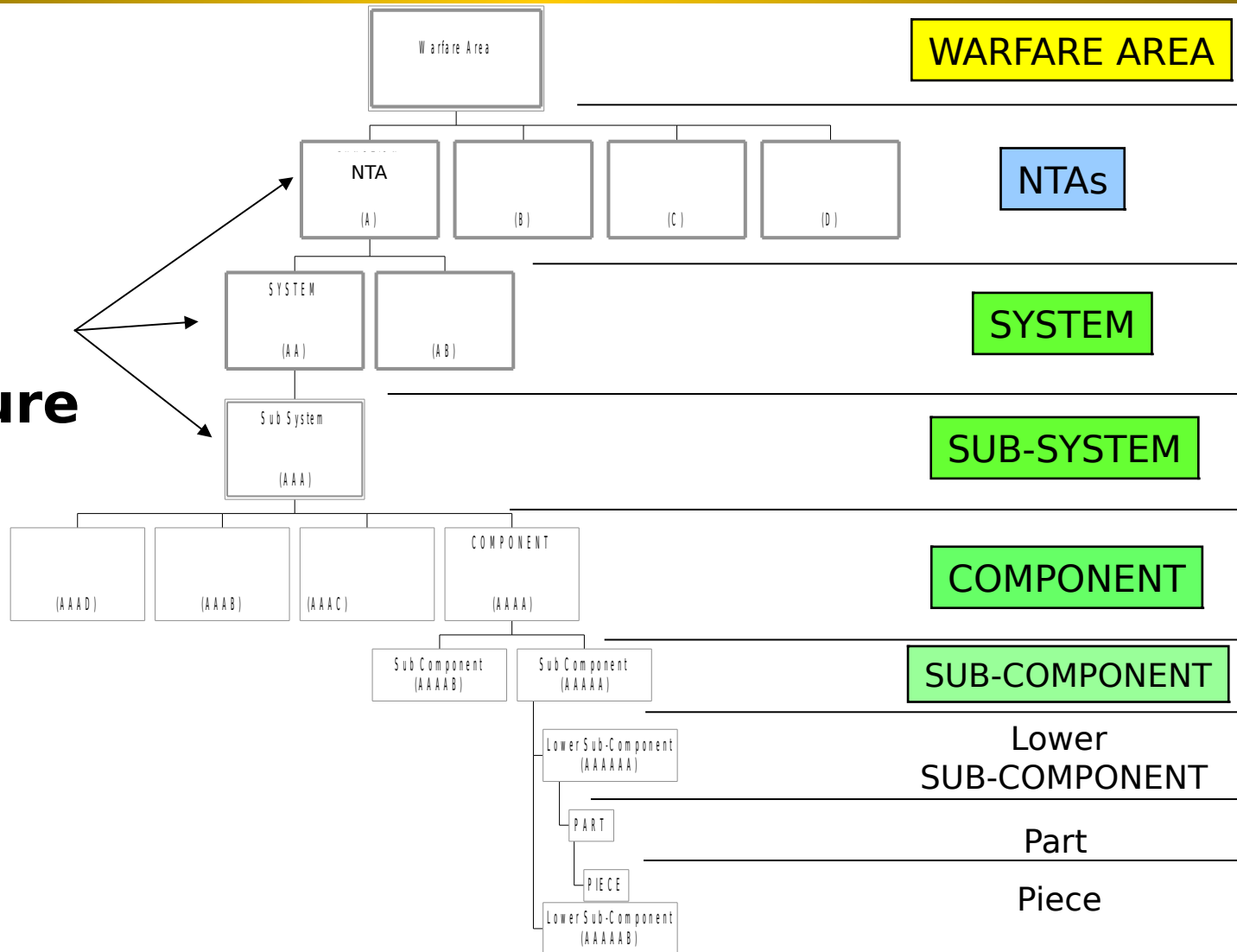
	MFOM	ASU	C2W	CCC	FSO	INT	LOG	MIW	MOB	NCO
MCM 1	0.93	0.92	1.00	0.97	0.99	0.99	0.97	0.64	0.89	1.00
MCM 10	0.71	0.73	0.84	0.71	0.77	0.95	0.98	0.10	0.27	1.00
MCM 11	0.83	0.92	0.91	0.82	0.94	0.91	1.00	0.23	0.74	1.00
MCM 12	0.93	0.99	1.00	1.00	0.98	1.00	1.00	0.45	0.92	1.00
MCM 13	0.92	0.98	0.99	0.89	1.00	1.00	1.00	0.65	0.73	1.00
MCM 14	0.86	0.90	0.92	0.89	0.89	1.00	0.97	0.50	0.73	0.99
MCM 2	0.86	0.93	0.94	0.94	0.92	0.97	0.93	0.40	0.72	1.00
MCM 3	0.72	0.89	0.94	0.96	0.76	0.99	0.95	0.00	0.00	0.99
MCM 4	0.88	0.95	0.96	0.99	1.00	0.99	1.00	0.44	0.62	1.00
MCM 5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MCM 6	0.62	0.84	0.63	0.44	0.81	0.94	0.89	0.00	0.00	0.98
MCM 7	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MCM 8	0.82	0.90	0.96	0.85	0.97	0.99	0.98	0.17	0.50	1.00
MCM 9	0.72	0.88	0.93	0.88	0.91	0.98	0.90	0.00	0.00	0.98





Analytical Hierarchical Ship Material Condition Model Conventions

**Level
of
Indenture**





FIN

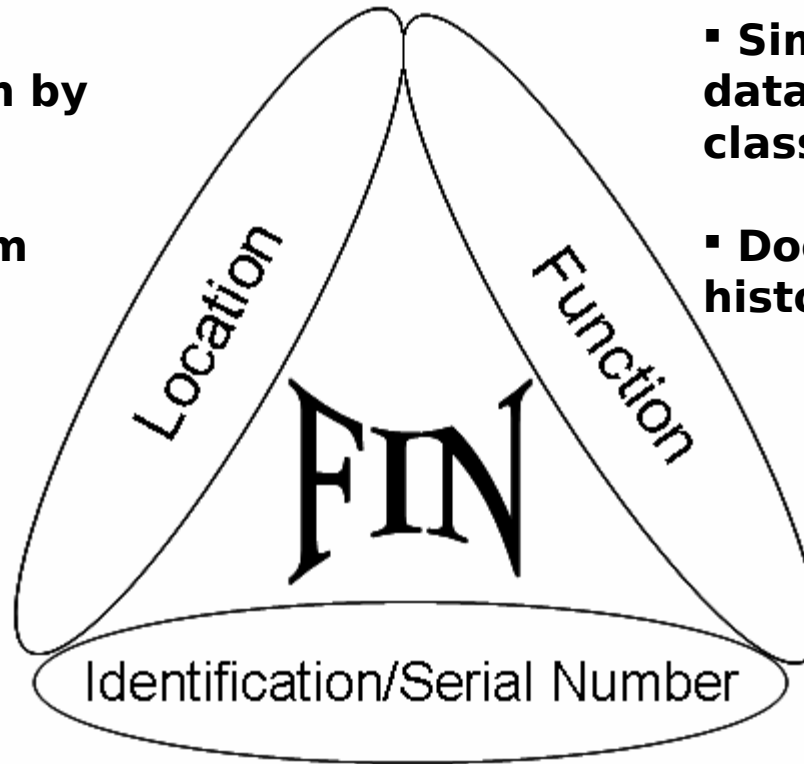
(Location)(Function)(ID)

Functional Index Number (FIN):

An alpha/numeric value assigned to all items in the model.

- **Uniquely identifies every shipboard item by function**
- **Identifies same item across ship classes**

- **Simplifies retrieving data across ship classes**
- **Documents material history**



Location:

Compartment Number, Compartment Name, or XYZ Coordinates

Function:

Defines the operational contribution, action, purpose or activity of an object.

Identification/Serial Number:

Applies an Item Unique Identifier to an object.

Can be composed of an IUID or Material

Identification Number.



MFOM Program

- DoDINST 5000 compliant ACAT-IV III
- DITPRDON compliant (21695)
- DADMS compliant (35265)
- Registered as an Authoritative Data Source in DADMS
- NITESTAR compliant (FOMLNTF)
- ATOs (10 ATOs in-place; 3 working)
- PPL/SSIL compliant for shipboard products
- FAM compliant (Logistics)
- SCD compliant for shipboard products
- CMMI level 3 (in process)

